```
void put(FRUIT fruit){
                               void get(FRUIT fruit, FRUIT &x){
enter(IM);
                                   enter(IM);
if(full)
                                   if (!full | plate != fruit){
    wait(SP, SP_count, IM);
                                       if (fruit == orange)
                                           wait(SS, SS_count, IM);
full = true; plate = fruit;
if(fruit == orange)
                                       else
    signal(SS, SS_count, IM);
                                           wait(SD, SD_count, IM);
else
    signal(SD, SD_count, IM);
                                   x = plate;
leave(IM);
                                   full = false;
                                   signal(SP, SP_count, IM);
                                   leave(IM);
```